

# **Installation Instructions: New A8 Cassette Interface BOARD**

## **Part Number: SP9403701**

Due to parts that have become obsolete, the A8 BOARD has been redesigned for use in the following equipment:

*Kodak X-Omat* MULTILOADER 300  
*Kodak X-Omat* MULTILOADER 300 PLUS  
*Kodak X-Omat* MULTILOADER 7000  
*Kodak* MINILOADER 2000  
*Kodak* MINILOADER 2000P

- \* Mounting of the new A8 BOARD is identical to the old style.
- \* The A3 BOARD is integrated in the new A8 BOARD.
- \*The new A8 BOARD has firmware installed and can be configured for use with Multiloaders 300/300PLUS, Multiloader 7000, Miniloaders 2000/2000P.

**Important:** If a MULTILOADER 300 has operation and bootstrap software that is less than V4.0 installed, it must be upgraded during the installation of the new A8 BOARD.

**Mod 52: Part Number 9229220**

Multiloader/Miniloader: Must have the following minimum version Operation Software.

XML7000	V1.21	Floppy PN: SP9409351	CD PN: --
ML2000/P	V2.41	Floppy PN: H9312416	CD PN: 1F2436
XML300Plus	V5.22	Floppy PN: H9212526	CD PN: --
XML300	V4.10	Floppy PN: H9214106	CD PN: --

**Software:** Other sources to obtain and download Multiloader/Miniloader software.  
For FE's in EPMAR: Lotus Notes Database, HIS EPMAR Prof Serv on Great Britain.  
For US Distributors: Web site [www.kodak.com/go/hidistrib](http://www.kodak.com/go/hidistrib) (see your service manager for a password)

**Install the new A8 BOARD as follows:**

1. Note the current Operation Software installed in the Multiloader/Miniloader.
2. De-energize the equipment.
3. Remove: COVERS AND PANELS
4. Disconnect from existing A8 BOARD: CABLES AND CONNECTORS
5. Remove and discard old A3 + A8 BOARDS.
6. Install new A8 BOARD using existing hardware.
7. Connect to new A8 BOARD: CABLES AND CONNECTORS

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8. Set the S3 DIP SWITCHES on the new A8 BOARD as follows:

Multiloader Type	S3-1	S3-2	S3-3	S3-4
XML7000	ON	ON	ON	N.A.
ML2000/2000P	OFF	ON	ON	N.A.
XML300	ON	OFF	ON	N.A.
XML300 Plus	OFF	OFF	ON	N.A.

9. Set DIP SWITCH S2-3 – OFF (Not Used)  
Set DIP SWITCH S2-4—OFF (Not Used)  
Set DIP SWITCH S2-1: Same setting as DIP SWITCH 1 of old A8 BOARD  
Set DIP SWITCH S2-2: Same setting of DIP SWITCH 2 of old A8 BOARD
10. **For XML7000/(ML2000P SN >6752): Set Jumpers for B20/CPUVO**  
(B20 with no mirror)  
A8X2 to 2-3  
A8X3 to 2-3  
A8X50 (Not Used)  
A8X52 (Not Used)
11. **For B20 with Mirror, XML300/300Plus/ML2000/(ML2000P SN 6752 and below): Set Jumpers**  
A8X2 to 1-2  
A8X3 to 1-2  
A8X50-2 to A8X52-2
12. **ML2000P B9/CPI sensor adjustment: test points P1, P21 GNDPE**  
With no film in processor interface adjust R100 to <500mV.  
With fresh film blocking B9 sensor voltage should be >3.5VDC. If value cannot be reached, remove film from B9 sensor and readjust R100 closer to 500mV. Install: COVERS and PANELS
13. Energize: MULTILOADER/MINILOADER
14. Using LAPTOP COMPUTER download Operating Software noted on Step 1, Page 1 to the new A8 BOARD. If software version is being upgraded download new version of Operation Software.
15. Check MULTILOADER/MINILOADER for correct operation.

**NOTE:** When installing new A8 BOARD to a XML300/300 PLUS,  
MINILOADER 2000/2000P new test points and circuit board diagram must  
be used for service.

P1 (green)	R100 Adj sensor input B22/CT2L
P2 (green)	sensor input B17/CPUEF
P3 (green)	sensor input B18/CPUER
P4 (green)	R101 Adj sensor input B22/CT2R
P5 (green)	sensor input B20/CPUVO
P6 (red)	V <sub>μ</sub> P
P7 (red)	VCC (+5 Vdc) micro process voltage
P8 (green)	_RESET
P9 (red)	Vpe10 (+10 Vdc) Unreg
P10 (red)	Vpe30 (+30 Vdc) Unreg
P11 (red)	Vpe31 (+24 Vdc) Reg
P12 (green)	FPGA PA0
P13 (red)	Vpe11 (+5 Vdc) Reg
P14 (green)	R70 ADUST
P21 (black square)	GNDpe peripheral ground
P22 (black)	GNDuP micro controller voltage ground

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